

20V Stepper Motor Driver

Description

The SA8549 is a dual-channel low saturation voltage forward/reverse motor driver IC. It is optimal for motor drive in 12V system products and can drive a stepper motor in Full-step or two DC motor.

The output driver block of each H-bridge consists of N-channel power MOSFETs configured as an H- bridge to drive the motor windings. Each H-bridge includes circuitry to regulate or limit the winding current. Internal shutdown functions are provided for under-voltage lockout, over current protection and over temperature. A low-power sleep mode is also provided.

The SA8549 is available in a compact ESOP8 and SOP10 package.

Features

- VM max=22V, IO max = 1.2A
- $R_{DS(on)}$: 730-m Ω (HS + LS)
- H-Bridge Motor Driver
- Over current protection
- Over temperature protection
- UVLO protection
- Low-Power Sleep Mode
- ESOP8 and ESOP10 Package

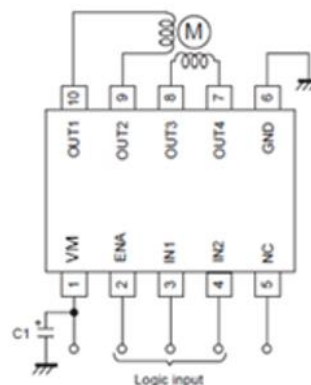
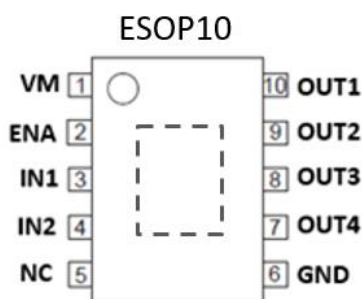
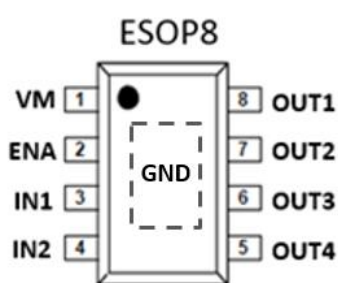
Applications

- Stage Lighting
- Refrigerator
- Vacuum Cleaner
- POS Printer
- Any Relevant Stepper Motor Applications.

Device Information

Part No.	Package	Quantity
SA8549	ESOP8	4000/Reel
SA8549	ESOP10	4000/Reel

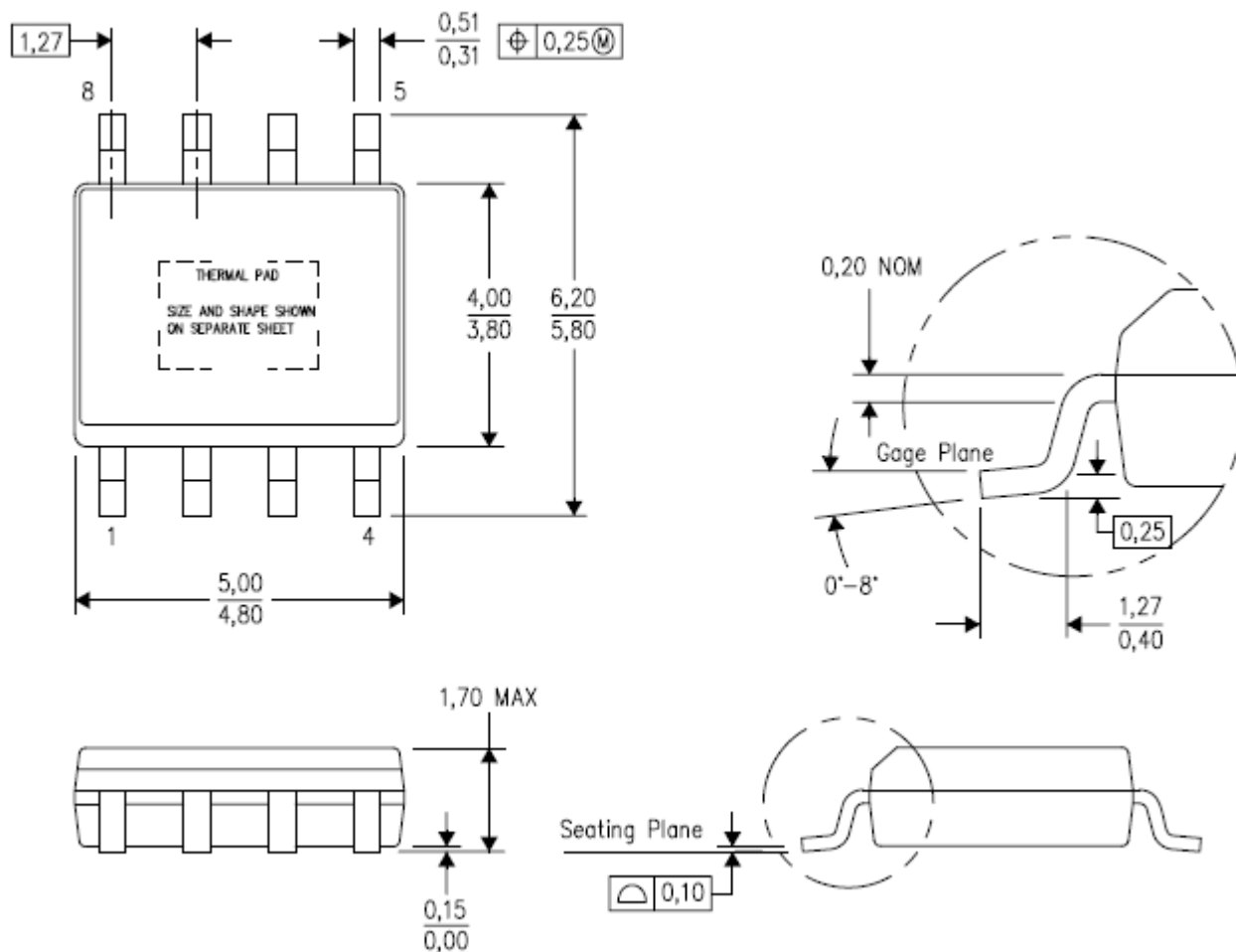
SA8549 Package & Simplified Schematic



20V Stepper Motor Driver

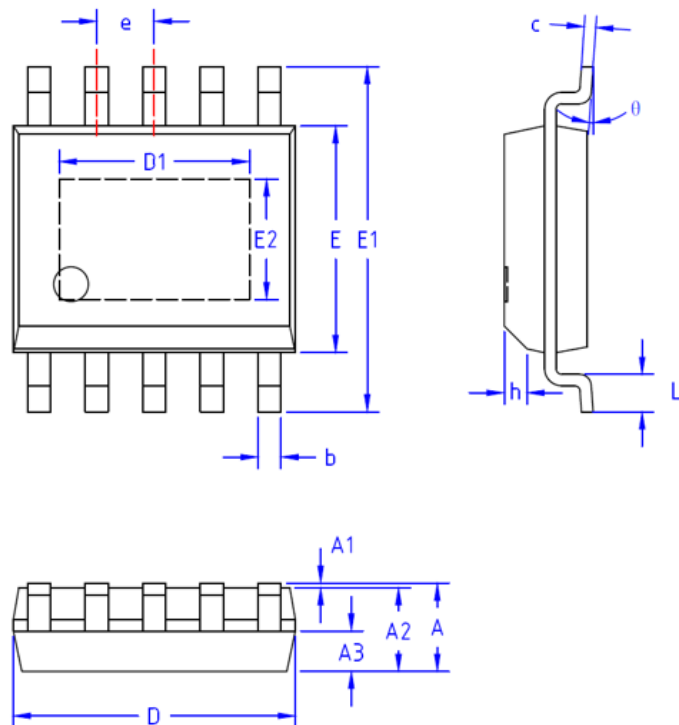
Package Information

ESOP8



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ESOP10



Dimensions/mm

DIM	MIN	TYP	MAX
A	1,500	1,600	1,700
A1	0,000	—	0,100
A2	1,350	1,450	1,550
A3	0,650	0,700	0,750
b	0,300	—	0,500
c	0,190	—	0,250
D	4,800	4,900	5,000
D1	3,200	3,300	3,400
E	3,840	3,940	4,040
E1	5,900	6,000	6,100
E2	2,000	2,100	2,200
e	1,00 (BSC)		
h	0,250	—	0,500
L	0,520	—	0,720
θ	0°	—	8°

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